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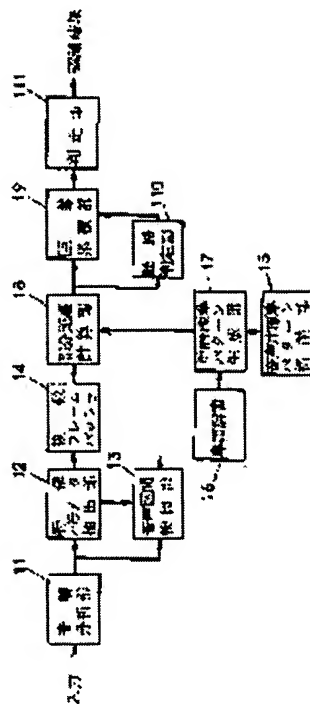
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(54) SPEECH RECOGNITION DEVICE

(57)Abstract:

PURPOSE: To provide the speech recognition device which has superior recognition performance, and easily vary and register a vocabulary.

CONSTITUTION: This speech recognition device consists of an acoustic analysis part 11, a feature parameter extraction part 12, a speech element standard pattern storage part 15, a word dictionary 16 where all words to be recognized are described as arrays of speech elements, a word standard pattern generation part 17 which generates the word standard pattern of the vocabulary to be recognized by selecting and connecting speech element standard patterns according to the array of speech elements, a part distance calculation part 18 which finds the part distance between an input vector generated with plural frames and the partial pattern of a speech to be recognized on a statistical distance scale based upon ex post face probability, a distance accumulation part 19 which finds the distance between the input speech and word standard pattern by accumulating the part distance over the whole speech while shifting input frames, and a decision part 111 which employs the speech name whose cumulative distance is minimum as a recognition result.



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